

Trade Name: SRC HM1 RMA T3 (Ag2) V16L

1. Company Address: Almit GmbH Ph.: +49 6066 96884-0
 Dekan-Groh-Straße 4 Fax: +49 6066 96884-18
 (DE) 64720 Michelstadt - near Frankfurt

2. Validity: This specification is specified for:
 Almit-Solder-Paste SRC HM1 RMA T3 (Ag2) V16L
 Delivered by Almit GmbH to: _____

3. Diameter & Allowance:

| | | | | | |
|-----------|----------|------|------|-------|---|
| Weight | 500g | 500g | 800g | 1500g | 0 |
| Allowance | -0, +10g | | | | |

4. Deliverable Reel Size:

| | | | |
|------------|------------|-------------|------------------|
| Metal Name | Solidus °C | Liquidus °C | Specific Gravity |
| Sn62 AG2 | 179 | 190 | 8.4 |

5. Physical Properties:

| Test | Characteristics | Test Methods |
|----------------------------|---------------------|---------------------|
| Metal Content | 90.5 ± 1.0 | IPC-TM-650 2.2.20 |
| Silver Chromate | pass | IPC-TM-650 2.3.33 |
| Copper Mirror Test | pass | IPC-TM-650 2.3.32 |
| SIR (85°C, 85%, 168hr) (Ω) | ≥ 1x10 ⁸ | IPC-TM-650 2.6.3.3 |
| Corrosion Test | pass | IPC-TM-650 2.6.15 |
| Flux materials composition | RO | J-STD 004 1.2 |
| Quantitative Halide | L1 < 0.5% | IPC-TM-650 2.3.35 |
| Fluorides By Spot Test | pass | IPC-TM-650 2.6.35.1 |

6. Characterisitcs:

| Composition | Components | | | | | | | |
|-------------|------------|-------|--------|-------|-------|--------|-------|------|
| | Sn | Pb | Cu | Ag | Sb | Bi | Au | In |
| Standard | 62.0 | Rest | ≤0.05 | 2.0 | ≤0.12 | ≤0.1 | ≤0.08 | ≤0.1 |
| Composition | Components | | | | | | | |
| | Al | As | Cd | Fe | Ni | Zn | | |
| Standard | ≤0.001 | ≤0.03 | ≤0.002 | ≤0.02 | ≤0.01 | ≤0.001 | | |

7. Solder Powder Size & Distribuon :

% of Sample by Weight – Nominal Size

| Type | not larger than | less than 1% larger than | at least 80% between | at most 10% less than |
|-------------|-----------------|--------------------------|----------------------|-----------------------|
| Type 4 V16L | 40 Microns | 38 Microns | 20 - 38 Microns | 20 Microns |

8. Lot-Size: A single lot contains 500kg which is the amount of one melting.

9. Quality and Inspecon :

Inspecon items are applied to each lot as follows :

| Test No. | Inspection Item | Contents | Standard | |
|----------|--------------------|--|--------------------------------|--------|
| 1 | Appearance | Color | Comparison with Limit Specimen | |
| 2 | Weight | Net Weight | -0 ; +10 | (g) |
| 3 | Solder Powder Size | 20 - 38 μ m V16L | 94 \leq | (wt%) |
| 4 | Metal Composition | Pb | Rest | (wt%) |
| | | Sn | 62.0 \pm 0.5 | (wt%) |
| | | Ag | 2.0 \pm 0.2 | (wt%) |
| | | | | (wt%) |
| 5 | Characteristics | Flux Content | 9.5 \pm 0.5 | (wt%) |
| 6 | | Solder Balling Test | Comparison with Limit Specimen | |
| 7 | | Viscosity (Spiral type, 10rpm, 25°C) (IPC-650-2.4.34.3) | 230000 \pm 30000 | (cps) |
| | | | 230 \pm 30 | (Pa•s) |
| 8 | | Solderability on Cu-Plate | Comparison with Limit Specimen | |
| 9 | Dryness | Chalk powder should be easily removed from each test specimen. | | |

*Straight lines of solder paste are printed on a JIS-2 type substrate then reflowed. The reflowed solder is examined with a stereo microscope at 30X magnification. No more than 2 solder balls larger than one fifth the size of the pattern gap is allowed per gap.

10. Packing:

| Individual Package | | Outer Package | |
|--------------------|---------------------|---------------|---------------|
| Unit | Packing | Unit | Packing |
| 500g | Polyethylene bottle | 10kg ; 20kg | Cardboard Box |
| 500g | 6 oz Cartridge | 10kg | |
| 800g | Proflow Cassette | 8kg ; 16kg | |
| 1500g | 18 oz Cartridge | 15kg | |
| | | | |

11. Identification:

| | Polyethylene bottle | Cardboard |
|--------------------|---|------------------|
| Name | Almit-Solder-Paste SRC HM1 RMA T3 (Ag2) V16L | same as the left |
| Lot Nr. | (Ex.) 120119-9 | dto. |
| Solder Powder Size | 20 - 38 μ m | dto. |
| Date of Mfg. | (Ex.) 19.01.2012 | dto. |
| Net Weight | (Ex.) 500g | dto. |
| Maker | Nihon Almit Co. Ltd. | dto. |

10. Maker Address: Nihon Almit Co. Ltd.
Almit Bldg., 2-14-2 Yayoicho, Nakano-ku, Tokyo, Japan

11. In case of changing this specification it should be accepted by:

Signature_____ Date_____

12. This product is manufactured, using all guaranteed materials according to the legal law regulations.

13. Shelf Life:

Up to

6 month from the manufactured date (lot number).